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IFIUDB  
NEWS 6 Apr 89 Records from IF.com available in CAPLUS, HCAPLUS, and  
ZCAPLUS  
NEWS 7 Apr 89 BIOSIS Gene Names now available in TOKCENTER  
NEWS 8 Apr 89 Federal Research in Progress (FERIP) now available  
NEWS 9 Jun 89 New e-mail delivery for search results now available  
NEWS 10 Jun 89 MEDLINE Reload  
NEWS 11 Jun 89 ECTFULL has been reloaded  
NEWS 12 Jul 89 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 89 USAI to be reloaded July 28, 1989;  
saved answer sets no longer valid  
NEWS 14 Jul 89 Enhanced polymer searching in REGISTRY  
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NEWS 16 Aug 89 CANCERLIT reload  
NEWS 17 Aug 89 PHARMAMarketLetter (PHARMAML) - new on STN  
NEWS 18 Aug 89 NTIS has been reloaded and enhanced  
NEWS 19 Aug 89 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 89 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 89 The MEDLINE file segment of TOKCENTER has been reloaded  
NEWS 22 Aug 89 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 89 CAPID has been reloaded and enhanced  
NEWS 24 Sep 89 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 89 Indexing added to some pre-1907 records in CA/CAPLUS  
NEWS 26 Sep 89 CA Section Thesaurus available in CAPLUS and CA  
NEWS 27 Oct 89 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 28 Oct 89 EVENTLINE has been reloaded  
NEWS 29 Oct 89 EILSTEIN adds new search fields  
NEWS 30 Oct 89 Nutraceuticals International (NUTRACEUT) now available on  
STN  
NEWS 31 Oct 89 MEDLINE SDI run at October 3, 1989  
NEWS 32 Nov 89 OKINIT has been renamed APOLLIT  
NEWS 33 Nov 89 More calculated properties added to REGISTRY  
NEWS 34 Dec 89 TIRKAT will be removed from STN  
NEWS 35 Dec 89 CSA files on STN  
NEWS 36 Dec 89 ECTFULL now covers WP/PCT Applications from 1978 to date  
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CURRENT MACINTOSH VERSION IS V6.1b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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FILE 'HOME' ENTERED AT 16:14:15 ON 09 JAN 2003

= s library (lab) seeding or growing  
 THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE.  
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= FILE BIOSIS MEDLINE EMBASE LIFESCI CAPLUS		
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	ENTRY	SESSION
FULL ESTIMATED COST	0.42	0.42

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= FILE BIOSIS MEDLINE AGRICOLA EMBASE LIFESCI CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.74	4.16

FILE 'BIOSIS' ENTERED AT 16:15:44 ON 09 JAN 2003  
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=> s chicory (2a) seeding or growing  
L1 484111 CHICORY (2A) SEEDING OR GROWING

=> s 11 and non (w) conventional  
L1 31 L1 AND NON (W) CONVENTIONAL

=> dup rem L2  
PROCESSING COMPLETED FOR L2  
L3 31 DUP REM L2 (14 DUPLICATES REMOVED)

=> d 13 1-21

L3 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2002:172116 CAPLUS  
EN 137:144715

TI **Non-conventional** directions in the use of distillery  
residue

AU Gnaprynski, Bogusław; Kłosowski, Grzegorz; Kotarska, Katarzyna; Wolska,  
Malgorzata

CS Samodzielna Pracownia Gerzelnicza, Inst. Biotechnol. Przemysłu  
Rolno-Spożywczego, Bydgoszcz, Pol.

SO Przemysł Fermentacyjny i Owocowo-Warzywny (2002), 46(1), 20-21  
CODEN: EPFOWD; ISSN: 0137-1645

FB Wydawnictwo SIGMA-NOT

BT Journal

LA Polish

L3 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:734656 CAPLUS  
EN 136:93315

TI Desalination and water resource management in Kuwait

AU Hamoda, Mohamed F.

CS Department of Civil Engineering, Kuwait University, Safat, 13060, Kuwait

SO Desalination (.001), 138(1-3), 385-395

CODEN: DESLNAH; ISSN: 0011-9164

FB Elsevier Science B.V.

BT Journal

LA English

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:154224 CAPLUS

TI Hadrons (protons, neutrons, heavy ions) in radiation therapy: rationale,  
achievements and expectations

AU Wambersie, Andre; Galbauer, Reinhard A.

CS Universite Catholique de Louvain Cliniques Universitaires St-Luc,

Brussels, B-1200, Belg.  
SO Radiokhim. Acta (2001), 89(4-5), 245-252  
CODEN: RAACAP; ISSN: 0033-8220  
PB P. Oldenbourg Verlag  
DT Journal  
LA English  
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

1- ANSWER 4 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
1  
AN 2002:10489 BIOSIS  
DI PREV200200010489  
TI Regulation of the AEF1 gene, a mitochondrial elongation factor G from  
the  
dimorphic yeast *Arxula adenivorans* LS3.  
AU Wartmann, Thomas; Gellissen, Gerd; Kunze, Gotthard (1)  
CS (1) Institut fuer Pflanzengenetik und Kulturpflanzenforschung,  
Corrensstrasse 3, 06466, Gatersleben; kunzeg@ipk-gatersleben.de Germany  
SO Current Genetics, (October, 2001) Vol. 40, No. 3, pp. 172-178. print.  
ISSN: 0172-9081.  
DT Article  
LA English

1- ANSWER 5 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:723627 CAPLUS  
TI Desalination and water resource management in Kuwait  
AU Hamada, Mohamed F.  
CS Department of Civil Engineering, Kuwait University, Safat, 13060, Kuwait  
SO Desalination (2001), 138:1-3, 165  
CODEN: DESHAH; ISSN: 0011-9164  
PB Elsevier Science B.V.  
DT Journal  
LA English

1- ANSWER 6 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2000:842989 CAPLUS  
DI 134:75624  
TI Microbial degradation of organic wastes at low temperatures  
AU Ramana, K. V.; Singh, Lokendra  
CS Defence Research and Development Establishment, Gwalior, 474 002, India  
SO Defence Science Journal (2000), 50(4), 371-382  
CODEN: DSJOAA; ISSN: 0011-744X  
PB Defence Scientific Information & Documentation Centre  
DT Journal; General Review  
LA English

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

1- ANSWER 7 OF 21 CAPLUS COPYRIGHT 2003 ACS  
AN 2001:368113 CAPLUS  
TI Towards healthy microclimate of closed spaces and habitats  
AU Besler, Gerard Jan; Besler, Maciej  
CS Faculty of Environmental Engineering, Chair of Air Conditioning and  
District Heating, Wroclaw University of Technology, Wroclaw, 50-373, Pol.  
SO Environ. Prot. Eng. (2000), 16(3), 23-38  
CODEN: EPEND9; ISSN: 0924-6460  
PB Wroclaw University of Technology  
DT Journal  
LA English

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FOFMATT

QA ANSWER 9 OF 21 MEDLINE DUPLICATE 2  
 AN 129-106781 MEDLINE  
 DN 96106781 PubMed ID: 9891e32  
 TI **Non-conventional** respiratory support modalities  
 applicable in the older child. High frequency ventilation and liquid  
 ventilation.  
 AU Kallas H C  
 CO Department of Pediatrics, University of California, Davis, School of  
 Medicine, Sacramento, USA.. hjkallas@ucdavis.edu  
 SO CRITICAL CARE CLINICS, (1998 Oct) 14 (4) 655-63. Ref: 245  
 Journal code: 6507730. ISSN: 0749-0704.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 General Review; (REVIEW)  
 (REVIEW, ACADEMIC)  
 LA English  
 PS Priority Journals  
 EN 199901  
 ED Entered STN: 19990216  
 Last Updated on STN: 19990216  
 Entered Medline: 19990129

LS ANSWER 10 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

23 ANSWER 11 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

olfactory receptor axons: Co-localization with growth-associated phosphoprotein-43.

AU Wolff, J. P.; Liu, W. L. (1); Boettcher, H.; Krizbai, I.; Joo, F.; Saftig, P.; Parducz, A.  
 CS (1) Dep. Anatomy, Univ. Maryland Sch. Med., Baltimore, MD 21201-1559 USA  
 SO Neuroscience, (1997) Vol. 79, No. 3, pp. 887-891.  
 ISSN: 0304-4512.  
 DT Article  
 LA English

LE ANSWER 12 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 1998:64134 BIOSIS  
 DN PREV19980064134  
 TI Effect of lasalocid and a *Saccharomyces cerevisiae* culture on growing "Criollo" lambs fed **non-conventional** ingredients.  
 AU Hernandez-Sanchez, D.; Gonzalez, S. S.; Ortigacarrilla, M. E.; Cokos, M. A.  
 CS Colegio Postgraduados, Montecillo, Edo Mexico: Mexico  
 SO Journal of Animal Science, (1997) Vol. 75, No. SUPPL. 1, pp. 271.  
 Meeting Info.: 39th Annual Meeting of the American Society of Animal Science Nashville, Tennessee, USA July 29-August 1, 1997  
 ISSN: 0021-8812.  
 DT Conference  
 LA English

LE ANSWER 13 OF 21 CAPLUS COPYRIGHT 2003 ACS  
 AN 1997:617697 CAPLUS  
 DN 127:232028  
 TI Growth and productivity of **non-conventional** energy source: *J. curcas*  
 AU Roy, Shikha  
 CS Energy Plantation Demonstration Project Centre, Department of Botany, University of Rajasthan, Jaipur, 302 004, India  
 SO Biomass for Energy and the Environment, Proceedings of the European Bioenergy Conference, 9th, Copenhagen, June 24-27, 1996 (1996), Volume 1, 860-863. Editor(s): Chartier, Philippe. Publisher: Elsevier, Oxford, UK.  
 CODEN: 6EBUAG  
 DT Conference  
 LA English

LE ANSWER 14 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 AN 1995:304560 BIOSIS  
 DN PREV199500304560  
 TI Fungicide use reduction in apple production-potentials or pipe dreams.  
 AU Penrose, L. J.  
 CS N.S.W. Agric. Res. Cent., Forest Road, Orange, N.S.W. 2800 Australia  
 SO Agriculture Ecosystems & Environment, (1995) Vol. 53, No. 3, pp. 231-241.  
 ISSN: 0167-8369.  
 DT Article  
 LA English

LE ANSWER 15 OF 21 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
 AN 1995049308 EMBASE  
 DN 1995049308

TI Perspectives from general practice: Skilled doctors or imported  
complementary practitioners?  
AU Peters C.  
CS Centre Community Care Primary Health, University of Westminster, 33 Queen  
Anne Street, London W1M 9EB, United Kingdom  
SO Complementary Therapies in Medicine, (1991) 1/1 (32-36).  
ISSN: 0968-2149 CODEN: CTHMES  
CY United Kingdom  
DI Journal; (Short Survey)  
EY 317 Public Health, Social Medicine and Epidemiology  
LA English  
SL English

IS ANSWER 16 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1790114944 BIOSIS  
DU PREV179098627079  
TI Prediction of protein quality from a model for N digestion and metabolism  
in pigs with **non-conventional** rations.  
AU Larduet, R.; Savon, Lourdes  
CS Inst. Ciencia Anim., Apartado 24, San Jose de las Lajas, La Habana Cuba  
SO Cuban Journal of Agricultural Science, (1995) Vol. 29, No. 1, pp. 1-9.  
ISSN: 0-64-11141.  
DI Article  
LA English

IS ANSWER 17 OF 21 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
AN 91041444 EMBASE  
DU 1991041444  
TI Wastewater reuse for irrigation in the Near East Region.  
AU Arar A.  
CS Land and Water Development Division, Food and Agriculture Organization of  
the United Nations, Via delle Terme di Caracalla, 00100 Rome, Italy  
SO Water Science and Technology, (1991) 23/10-12 (2127-2134).  
ISSN: 0773-1223 CODEN: WSTED4  
CY United Kingdom  
DI Journal; Conference Article  
EY 046 Environmental Health and Pollution Control  
LA English  
SL English

IS ANSWER 18 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 109112271 BIOSIS  
DU BA9111922  
TI ECONOMIC IMPORTANCE OF SUGARCANE PITH AS A **NON-  
CONVENTIONAL** FEED RESOURCE FOR **GROWING** RUMINANT.  
AU ALTAF-UR-REHMAN M A; AHMAD N  
CS DEB. POULTRY SCI., N.W.F.P. AGRIC. UNIV., PESHAWAR.  
SO SAEHAD J AGRIC, (1990) 6 (5), 421-424.  
CODEN: SAJAGD.  
EY BA; OLD  
LA English

IS ANSWER 19 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 199111943 BIOSIS  
DU BA9111943-  
TI DISTRIBUTION OF EXCHANGEABLE AND TOTAL MANGANESE IN RUBBER **GROWING**  
REGIONS OF INDIA.  
AU ANNA M K; AUGUSTEY A; KRISHNAPURAM V; MAIHEW M  
CS RUBBER RES INST. INDIA, KOTTAYAM 686 009, INDIA.  
SO INDIAN J NAT RUBBER RES, (1989) 2 (2), 91-98.

CODEN: IJNREZ.  
FS EA; OLD  
LA English

L3 ANSWER 20 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1977:236058 BIOSIS  
DN RA64:60627  
TI NUTRITIONAL EVALUATION OF 6 PROTEIN CONCENTRATES FOR THE PIG.  
AU KONDOU A C  
SO AUST J EXP AGRIC ANIM HUSB, (1977) 17 (85), 263-267.  
CODEN: AAARAN. ISSN: 0045-060X.  
FS EA; OLD  
LA Unavailable

L3 ANSWER 31 OF 31 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
AN 78165041 EMBASE  
DN 1978165041  
TI Waste segregation as a means of enhancing onsite wastewater management.  
AU Siegrist P.  
CS Small Scale Waste Managem. Project, Univ. Wisconsin, Madison, Wis.,  
United States  
SO Journal of Environmental Health, (1977) 40/1 (5-9).  
CODEN: JENVEH  
CT United States  
DT Journal  
FS 917 Public Health, Social Medicine and Epidemiology  
946 Environmental Health and Pollution Control  
LA English

=> s chicory (2a) grow? (p) non(w)conventional (2a) method or process  
3 FILES SEARCHED...

L4 4130367 CHICORY (2A) GROW? (P) NON(W) CONVENTIONAL (2A) METHOD OR  
PROCES

3

=> s 14 and inulin  
L5 1635 L4 AND INULIN

=> s 15 and fructose  
L6 163 L5 AND FRUCTOSE

=> 16 and FET  
L6 IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt =>.

=> s 16 and FEH  
L7 0 L6 AND FEH

=> s 15 and fructan (w)exohydrolase  
L8 1 L5 AND FRUCTAN (W) EXOHYDROLASE

=> d 1: 1-2

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 1993:347517 BIOSIS  
DN PREV199396044557



TI **Fructan exohydrolase** from grasses.  
AU Simpson, Richard J.; Bonnett, Graham D.  
CS Sch. Agric. and Forestry, Univ. Melbourne, Parkville, 3052 Australia  
SO New Phytologist, (1993) Vol. 123, No. 3, pp. 453-469.  
ISSN: 0028-646X.  
DT Article  
LA English

1- ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
AN 1993:512300 CAPLUS  
DN 119:113303

TI **Fructan exohydrolase** from grasses  
AU Simpson, Richard J.; Bonnett, Graham D.  
CS Sch. Agric. For., Univ. Melbourne, Parkville, 3052, Australia  
SO New Phytologist, (1993), 123(3), 453-69  
CODEN: NEPRAV; ISSN: 0028-646X  
DT Journal; General Review  
LA English

= s 16 and degree(W) of (W) polymerization  
L9 9 L6 AND DEGREE(W) OF (W) POLYMERIZATION

= s 16 and DP  
L10 9 L6 AND DP

= d 119 1-5

L10 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
AN 2002:404980 BIOSIS  
DN PREV200200404130  
TI Soluble dietary fibres in Jerusalem artichoke powders: Composition and application in bread.  
AU Praczuk, W. (1); Cieslik, E.; Filipiak-Florkiewicz, A.  
CS (1) Institute of Chemistry, University of Agricultural Sciences, Muthgasse 18, A-1190, Wien: wpraczuk@edvz.boku.ac.at Austria  
SO Nahrung, (June, 2002) Vol. 46, No. 3, pp. 151-157. print.  
ISSN: 0027-769X.  
DT Article  
LA English

L10 ANSWER 1 OF 5 MEDLINE  
AN 2002361442 MEDLINE  
DN 21101611 PubMed ID: 12108113  
TI Soluble dietary fibres in Jerusalem artichoke powders: composition and application in bread.  
AU Praczuk W; Cieslik E; Filipiak-Florkiewicz A  
CS Institute of Chemistry, University of Agricultural Sciences, Muthgasse 18, A-1190 Wien, Austria.. wpraczuk@edvz.boku.ac.at  
SO NAHRUNG, (2002 Jun) 46 (3) 151-7.  
Journal code: 0142530. ISSN: 0027-769X.  
CY Germany; Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EN 200210  
ED Entered STN: 20020712  
Last Updated on STN: 20021008

Entered Medline: 20021007

L10 ANSWER 3 OF 5 MEDLINE  
AN 199:356476 MEDLINE  
DN 98396476 PubMed ID: 9691447  
TI The platinum-catalysed oxidation of **inulin**.  
AU Verraest L L; Peters J A; van Bekkum H  
CS Laboratory of Organic Chemistry and Catalysis, Delft University of Technology, The Netherlands.  
SO CARBOHYDRATE RESEARCH, (1998 Jan) 306 (1-2) 197-203.  
Journal code: 00435595. ISSN: 0008-6215.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199810  
ED Entered STN: 19981007  
Last Updated on STN: 19981008  
Entered Medline: 19981001

L10 ANSWER 4 OF 5 EMBASE COPYRIGHT 2013 ELSEVIER SCI. B.V.  
AN 199A221657 EMBASE  
TI The platinum-catalysed oxidation of **inulin**.  
AU Verraest L.L.; Peters J.A.; Van Bekkum H.  
CS H. Van Bekkum, Lab. of Organic Chemistry/Catalysis, Delft University of Technology, Julianalaan 136, 2628 BL Delft, Netherlands  
SO Carbohydrate Research, (1998) 306 1-2 (197-203).  
Refs: 24  
ISSN: 0008-6215 CODEN: CEBRAT  
EPI S 0008-6215(97)10041-6  
CY United Kingdom  
DT Journal; Article  
FS C19 Clinical Biochemistry  
LA English  
SL English

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS  
AN 1993:537902 CAPLUS  
DN 197:568909  
TI Soluble dietary fibres in Jerusalem artichoke powders: composition and application in bread  
AU Pradnik, W.; Gieslik, E.; Filipiak-Florkiewicz, A.  
CS Institute of Chemistry, University of Agricultural Sciences, Vienna, A-1190, Austria  
SO Nahrung (2002), 46 3, 151-157  
CODEN: NAHRAR; ISSN: 0027-769X  
EP Wiley-VCH Verlag GmbH  
DT Journal  
LA English

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 15 and 16

L11 8 L5 AND 16

=> dup rem 111

PROCESSING COMPLETED FOR L11

L12 3 DUP REM L11 (% DUPLICATES REMOVED)

= d 112 1-3

L12 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
1

AN 2003:404580 BIOSIS

DN PREV200300404580

TI Soluble dietary fibres in Jerusalem artichoke powders: Composition and application in bread.

AU Praczuk, W. (1); Cieslik, E.; Filipiak-Florkiewicz, A.

CS (1) Institute of Chemistry, University of Agricultural Sciences, Mithgasse

18, A-1120, Wien; wpraczuk@edvi.boku.ac.at Austria

SO Nahrung, (June, 2002) Vol. 46, No. 3, pp. 151-157. print.

ISSN: 0028-769X.

DT Article

LA English

L12 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
2

AN 1996:341526 BIOSIS

DN PREV199600341526

TI The platinum-catalyzed oxidation of **inulin**.

AU Verruett, Dorine L.; Peters, Joop A.; Van Bekkum, Herman (1)

CS (1) Lab. Organic Chem. and Catalysis, Delft Univ. Technol., Julianalaan 136, 2628 BL Delft Netherlands

SO Carbohydrate Research, (Jan., 1996) Vol. 306, No. 1-2, pp. 197-203.

ISSN: 0008-6215.

DT Article

LA English

L12 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

AN 1996:214704 CAPLUS

DN 124:159071

TI Fractionated Poly-disperse carbohydrate compositions for food, cosmetics, and pharmaceuticals

IN Smits, Georges; Deenekingh, Imo; Rooten, Karl

PA Tiense Suikerraffinaderij, Belg.

SO PCT Int. Appl., 88 pp.

COLEN: P10002

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	----	-----	-----
PI	WO 9001849	A1	19960125	WO 1993-BE67	19950907
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, DE, FI, GE, HU, IS, JP, KE,				
	KG, KF, KR, KZ, LR, LR, LS, LV, MD, MG, MN, MW, MX, NO, NZ, PL,				
	RU, RU, SD, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN				
	EW: KE, NW, SD, SZ, UC, AC, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,				
	LU, MC, NL, PT, SE, BF, BU, CF, CG, CI, CM, GA, GU, ML, MR, NE,				
	SH, TD, TG				
	EE 1004494	A3	19960507	EE 1994-638	19940707
	EE 1004706	A6	19970701	EE 1994-893	19940930
	CA 2123061	AA	19960115	CA 1995-2193061	19950707
	AU 9030731	A1	19960209	AU 1993-30731	19950707
	AU 691350	B2	19960813		
	EP 769026	A1	19970413	EP 1995-926341	19950707
	EP 769026	B1	19990908		
	F: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				

SE

BP 9510202	A	19971104	BR 1995-10202	19950707
CT 10592678	T2	19980310	JP 1995-504019	19950707
AT 184140	E	19990915	AT 1995-916341	19950707
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=> s 15 and roots  
L13 38 L5 AND ROOTS

=> dup rem L13  
PROCESSING COMPLETED FOR L13  
L14 36 DUP REM L13 (7 DUPLICATES REMOVED)

=> d L14 to 1-16

L14 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI **Inulin** molecular weight fractions obtained by precipitation at low temperature

L14 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI UV degradation of sesquiterpene lactones in chicory extract: kinetics and identification of reaction products by HPLC-MS

L14 ANSWER 3 OF 36 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.  
TI Technological functionality of **inulin** and oligofructose.

L14 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI Caro-coffee: a classic coffee surrogate

L14 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI **Process** for the manufacture of chicory **inulin**, hydrolysates and derivatives of **inulin**, and improved chicory **inulin** products, hydrolysates and derivatives

L14 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI Cell wall structure and organization of *Kluyveromyces marxianus* CBS 6556 in relation to the secretion of inulinase enzymes

L14 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI Initer. An alternative binder in spray-dried granulates for the ceramic industry

L14 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI Extraction of chicory

L14 ANSWER 9 OF 36 AGRICOLA  
TI Complex melting of semi-crystalline chicory (*Cichorium intybus* L.) root **inulin**.

L14 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2003 ACS  
TI Isolation of **inulin** from chicory root

- L14 ANSWER 11 OF 36 AGRICOLA  
 TI Fructans in callus of Gomphrena macrocephala St.-Hil.
- L14 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI **Process** for obtaining a purified solution of **inulin** from chicory juice
- L14 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI **Processes** for extraction and transformation of sugars from chicory **roots**
- L14 ANSWER 14 OF 36 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. DUPLICATE  
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 TI Fructan variations in tuberous **roots** of Viguiera discolor Baker (Asteraceae): The influence of phenology.
- L14 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Pilot-scale production of **inulin** from chicory **roots** and its use in food stuffs
- L14 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI A **process** for the production of **inulin** and its hydrolysis products from plant material
- L14 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI A method for preparing a mixture of saccharides
- L14 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Additive for stock feeds, stock feed containing additive, and **process** for preparation of additive
- L14 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Optimization of extraction of sesquiterpene lactones from cake from processing of Inula **roots**
- L14 ANSWER 20 OF 36 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 TI DYNAMICS OF CARBOHYDRATES IN THE ROOT SYSTEM OF ACROPTILON-REPENS.
- L14 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Changes in carbohydrates during the production of coffee substitute extracts, especially in the roasting **process**
- L14 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Dynamics of carbohydrates in the root system of Acroptilon repens DC
- L14 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Levulose
- L14 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Nature of water absorption by **roots** of detopped plants
- L14 ANSWER 25 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Theory of the diffusion **process** in sugar factories. III. The ideal countercurrent extraction, the Fehert system
- L14 ANSWER 26 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Physiological and biochemical characteristics of improved forms of kok-saghyz

L14 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Post-harvest accumulation of rubber in the **roots** of krym-saghyz

L14 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Laticiferous system as one regulating the course and direction of biochemical **processes** in plants

L14 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Laticiferous system as one regulating the course and direction of biochemical **processes** in plants

L14 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Obtaining rubber from the **roots** of kok-saghyz

L14 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Technology of the extraction of natural rubber

L14 ANSWER 32 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Obtaining rubber from the **roots** of kok-saghyz

L14 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI Technology of the extraction of natural rubber

L14 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI The dynamics of nutrition and development of kok-saghyz

L14 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI **Inulin** in plants, its origin and transformations

L14 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 TI **Inulin** in plants, its origin and transformations

=> d 114 5, 8-10, 12, 13 so An ABS TI

L14 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2003 ACS  
 SO Eur. Pat. Appl., 42 pp.  
 CODEN: EPUXDW

IN Smits, Georges; De Beeneer, Leen  
 AB The invention provides an improved **process** for the manuf. of chicory **inulin**, hydrolyzates and derivs. of **inulin** by conventional manufg. techniques from **roots** of chicory grown in the northern hemisphere from Dec. 1 until Mar. 14, May 15 until May 31, and June 1 until Nov. 30 and in the southern hemisphere from June 1 until Sept. 14, Sept. 15 until Sept. 30, Oct. 1 until Nov. 30, and Dec. 1 until May 31. Selection of said proper conditions enables to provide a growing and/or processing period for the chicory **roots** which may partly or wholly extend beyond the conventional periods. The invention relates also to improved grades of chicory **inulin**, of hydrolyzates of chicory **inulin**, such as e.g. a polydisperse oligofructose compn. and a fructose compn., as well as to the use of these products in the manuf. of food, feed, drinks, prophylactic and therapeutical compns., chem. derivs. and non-food compns. Improved std. grade chicory **inulin** according to the invention presents a degree of polymn. which is at least 20 % higher than the one of conventional std. grade chicory **inulin**.

TI **Process** for the manufacture of chicory **inulin**, hydrolyzates and derivatives of **inulin**, and improved chicory **inulin** products, hydrolyzates and derivatives

L14 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2003 ACS

S0 Czech Journal of Food Sciences (1998), 16(2), 72-76

CODEN: CJFSF2

AT Buxa, Stanislav

AB The chicory (*Cichorium intybus*) is an important source of **inulin**, a perspective food additive. The goal of this study was to find an extn. procedure to obtain pure exts. of **inulin** or bitter compds. from dried chicory **roots**. Chicory root extn. conditions, including the type of solvent (water, 40% aq. ethanol, abs. ethanol, isopropanol, n-hexane, Et acetate), solid/liq. ratio (1:10), time (up to 360 min), and temp. (25, 50, 80.degree.C), and the quality of exts., including the contents of **inulin**, bitter compds. (lactucopicrin, lactucin), color and assay methods, were evaluated. The best results were

obtained with water or 40% ethanol extn. at 50.degree.C for 60 min.

TI Extraction of chicory

L14 ANSWER 9 OF 36 AGRICOLA

S0 Carbohydrate research, Aug 1998, Vol. 319, No. 1/2, p. 65-75

Publisher: Oxford : Elsevier Science Ltd.

CODEN: CRBRAT; ISSN: 0008-6215

AT Hebetto, C.L.M.; Delcour, J.A.; Koch, M.H.J.; Boonen, K.; Kleppinger, R.; Mischenko, N.; Reynaers, R.

AB When concentrated solutions (30-45% by weight) of **inulin** (degree of polymerization 3-60, number average degree of polymerization 12) are cooled at 1 degree C/min or 0.25 degrees C/min from 95 degrees C to 20 degrees C, suspensions of semi-crystalline material in water are formed.

A

thermal nucleation **process** was detected by optical microscopy: the 9-like shaped crystallites resulting from primary nucleation at higher

temperature are larger than those resulting from secondary nucleation at lower temperature. Differential scanning calorimetry (DSC) thermograms display melting profiles with three to four partly overlapping endotherms that vary as a function of concentration, cooling rate during crystallization and storage time at 25 degrees C of the crystallite suspension. Recrystallization during melting was observed. The wide-angle X-ray scattering patterns of the samples at 25 degrees C correspond to those of the hydrated crystal polymorph. The structural changes during melting indicated the existence of a single crystal polymorph throughout melting. A periodicity of 95 angstrom, arising from alternating regions

of

different electron density, is detected in the small angle X-ray scattering patterns at 25 degrees C. The stepwise increase of the long period upon heating is related to the existence of two types of lamellar stacks: one with a higher long period, resulting from the primary nucleation and thus crystallized at high temperature, and a second one with a smaller long period, formed by crystallization at lower temperature. The lamellae formed at low temperature melt at a lower temperature than those formed at high temperature, explaining the existence of the two DSC-endotherms.

TI Complex melting of semi-crystalline chicory (*Cichorium intybus* L.) root **inulin**.

L14 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2003 ACS

S0 Potravinarska Vedy (1997), 15(1), 49-67

CODEN: PVEED; ISSN: 0662-8613

AT Hubnik, Jdenek; Korcakova, Ivana; Kadlec, Pavel; Starhova, Helena; Pour, Vladimir; Charek, Miloslav

AB This paper deals with methods used for the extn., isolation, refining and

manufg. of **inulin** from chicory. The introductory study completes by way of performed expts. the fundamental phys. and chem. properties of techn. and pure solns. of **inulin** and chicory exts. The study also discusses the necessary kinetic data concerning crystn., extn. and filtration **process**. There are applied recent procedures - for example: cross-flow membrane filtration, film evapn., spray drying and cooling crystn. by means of computer. For the detn. of **inulin**, other saccharides and further compas. occurring in exts. of chicory **roots** anal. methods were developed which apply HPLC and ITP (isotachopheresis). In conclusion of work the variant design of scheme demonstrating technol. **process** of the isolation of **inulin** and fructopoligosaccharides is mentioned.

TI Isolation of **inulin** from chicory root

L14 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2003 ACS

S0 Eur. Pat. Appl., 8 pp.

COOEN: EPXNDW

IN Alari, Georges Maurice

AB In the title **process**, with decreased losses, the chicory juice is limea and carbonated simultaneously at pH 11.0-11.1. Chicory root chips contg. H<sub>2</sub>O 33.34, **inulin** 16.44, sugars 1.33, impurities 3.99, and marc 4.93% were leached with H<sub>2</sub>O (132-137 L/100 kg) in a sugar diffuser at 65-70.degree., the juice (pH 5.6, brix 14.54) was sepd. from pulp (47 kg/100 kg chips, contg. 1.58% **inulin**), basified with CaO (2.6-3.0 g/L) to pH 10.8-11.2, heated to 85.degree., treated with aq. Ca(OH)<sub>2</sub> (11 g CaO/L) and sufficient CO<sub>2</sub> to maintain a pH of 11.0, sepd. from sediments, heated to 95.degree., and recarbonated (pH 8.6-8.9) to give a soln. with brix vol. 13.2-13.5 g/100 mL, color (° brix) 10,000-11,000, Ca salts (° brix) 600 mg, and sugar losses to residues 0.30-0.38 kg/100 kg chips.

TI **Process** for obtaining a purified solution of **inulin** from chicory juice

L14 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2003 ACS

S0 Comptes Rendus de l'Academie d'Agriculture de France (1994), 80(7), 31-46

COOEN: CRAFTQ; ISSN: 0989-6948

AV de Baynast, Regis; Benard, Catherine

AB A review, with no refs. Chicory (*Cichorium intybus*) **roots** contain 17% of **inulin**. It is an industrial source of fructose. There are two **processes** leading to exts. with high fructose content. The diffusion **process**, similar to that used in the sugar beet industry, gives partially hydrolyzed **inulin**. The enzymic **process** liquifies cell walls. It allows hydrolysis of **inulin** and other polymers, giving a mixt. of fructose (85%) and glucose (15%). The ext. is centrifuged and ultrafiltered, giving a stable syrup.

TI **Processes** for extraction and transformation of sugars from chicory **roots**

=> d 114 :

L14 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2003 ACS

AN 1299:460076 CAPLUS

DN 131:10370

TI **Process** for the manufacture of chicory **inulin**, hydrolysates and derivatives of **inulin**, and improved chicory **inulin** products, hydrolysates and derivatives

IN Smits, Georges; De Leenheer, Leen



PA Tiense Suikerraffinaderij N.V. (Raffinerie Tirlemontoise S.A.), Belg.  
 SO Eur. Pat. Appl., 22 pp.  
 CODEN: EFXK1W  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 930317	A1	19990721	EP 1998-870012	19980121
	F: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, PO				
	WO 9937686	A1	19990729	WO 1999-EP155	19990113
	W: AU, CN, IN, TR, US				
	FW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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PRAI	EP 1238-870012	A	19980121		
	WO 1999-EP155	W	19990113		

RE.CNT 5      THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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